

# PREDICTING MATERIAL COLOR SHIFTS DUE TO WEATHERING

## Abstract of Disclosure

Predicting material color shifts due to weathering. A color formulation tool determines the concentration of colorants from a color standard. The color formulation tool obtains weathered optical parameters for the color standard from a color database and predicts the color of the color standard from the colorant concentrations and weathered optical parameters.

Patent for Prediction of Color Shifts Due to Weathering

Variable	Mean	SD	Min	Max	Skewness	Kurtosis	Normality
Age	35.2	12.5	22	65	-0.15	3.2	0.98
Gender	1.2	0.4	1	2	0.05	3.0	0.99
Education	12.5	2.1	9	16	-0.2	3.1	0.97
Income	1500	500	500	3000	0.3	3.3	0.96
Health	2.5	0.8	1	4	-0.1	3.0	0.99
Stress	3.2	1.1	1	5	0.2	3.2	0.98
Life Satisfaction	4.1	0.9	3	5	-0.1	3.0	0.99
Work Satisfaction	3.8	1.0	2	5	0.1	3.1	0.98
Family Satisfaction	4.3	0.8	3	5	-0.1	3.0	0.99
Community Satisfaction	4.0	0.9	3	5	-0.1	3.0	0.99
Overall Satisfaction	4.2	0.8	3	5	-0.1	3.0	0.99